

## Adaptive Agile Multi-Spectral Laser Protection Devices

### Award Information

Agency:  
Department of Defense

### Branch

Air Force  
Amount:  
\$99,973.00

### Award Year:

2006  
Program:  
SBIR

### Phase:

Phase I  
Contract:  
FA9302-06-M-0002

### Agency Tracking Number:

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### Solicitation Topic Code:

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2006.1

### Small Business Information

### KENT OPTRONICS, INC

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### Hubzone Owned:

N

### Socially and Economically Disadvantaged:

Y

### Woman Owned:

N

### Duns:

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### Research Institution:

n/a

**Abstract**

This SBIR Phase I proposal proposes to develop agile multi-spectral laser protection devices against multi-wavelength high-energy lasers based on KOI's exclusive reflective type optical tunable notch filters whose capability for laser beam blocking has been demonstrated. The device has a wide spectral coverage from the visible to infrared (IR) (e.g., mid-wave IR) with an optical density over 4 at the laser wavelength. The notch bandwidth is around 50 nm in the visible and around 100nm in IR. The insertion loss to normal detection light is less than 1 dB. Electro-optical response time is less than 20 ms. The device is simple, and lightweight with excellent thermal stability up to 100oC, low power consumption of

\* information listed above is at the time of submission.